Kodak

Trendsetter AL and NEWS
Wrist cylinder upgrade (FCO CA00567)

1. PRODUCTS AFFECTED

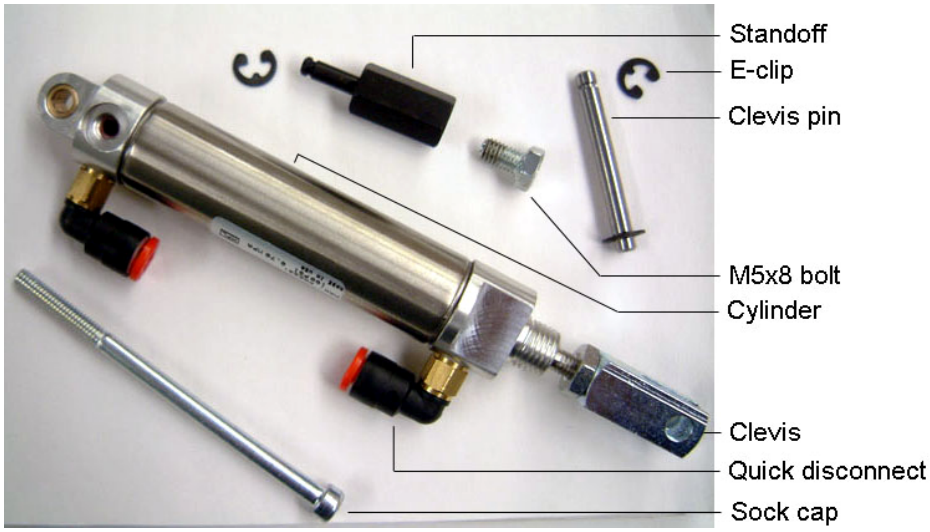
- Trendsetter AL
- Trendsetter NEWS

2. BACKGROUND

Wrist cylinders and mountings upgraded to improve reliability.

3. PARTS REQUIRED

Kit #512-00025 is for replacing both wrist cylinders. Parts included are shown in the photo below. Note that extra E-clips and socket head cap screws (sock cap) are provided.

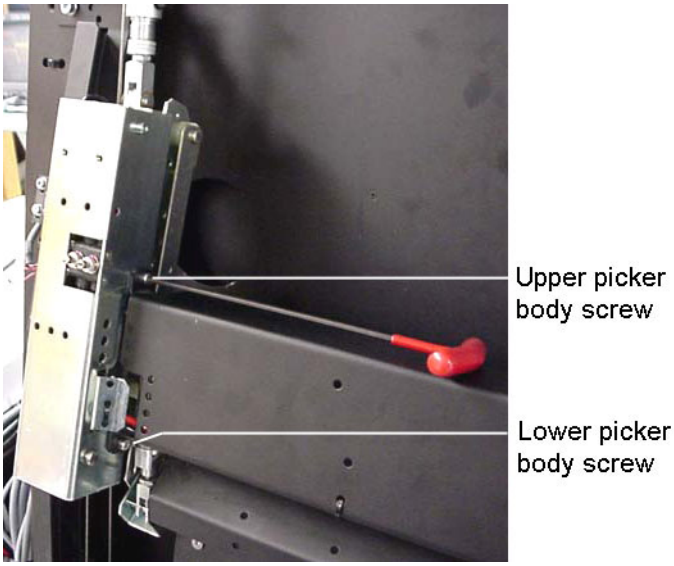


4. PROCEDURE

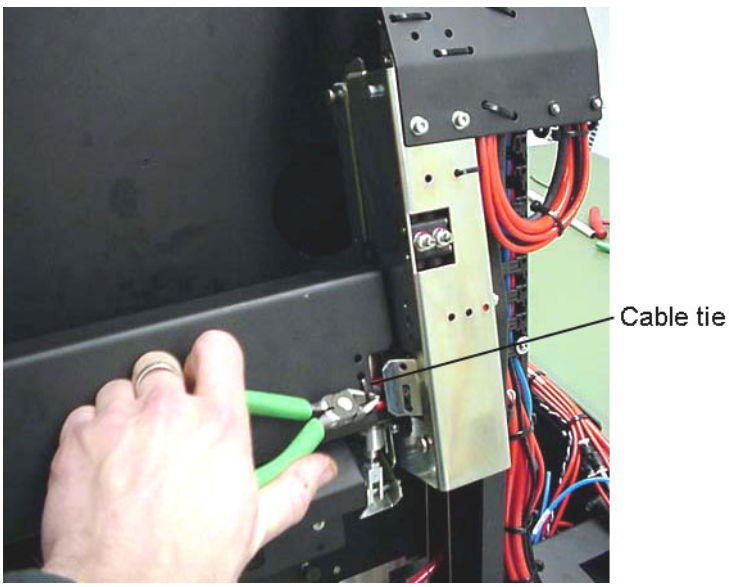
To upgrade the wrist cylinders:

Note: You must replace both cylinders at the same time.

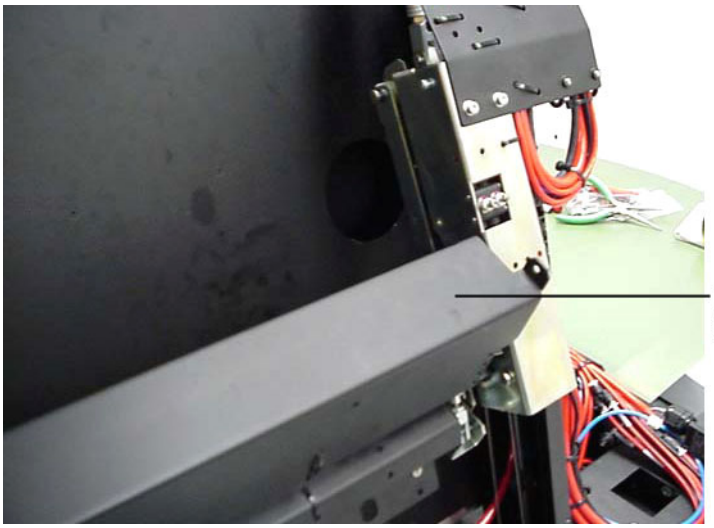
1. Shut off the compressed air supply.
2. Open the bay door.
3. Move the picker up by hand to the up position and use four cable ties, two per side, to keep it in place.
4. Remove the M4 upper picker body screws on both sides of the picker. See photo below.

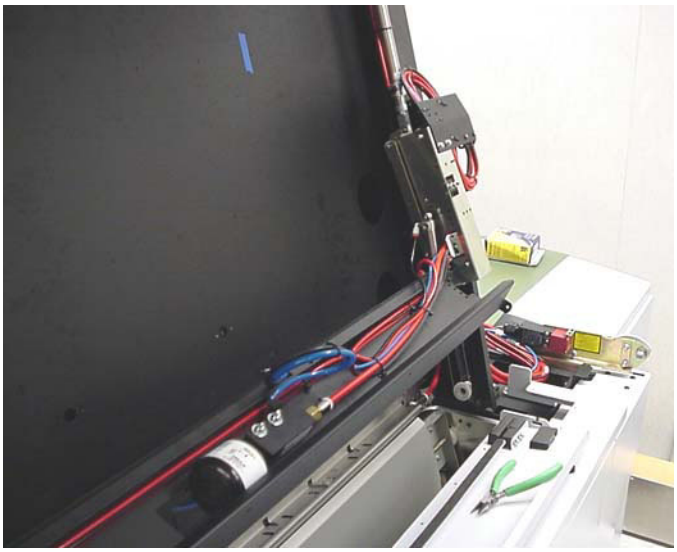


5. Loosen the lower picker body screws on both sides of the picker. See photo above.
6. Cut the cable ties on both sides of the picker to prevent binding of cables and tubes during the next step. See photo below.



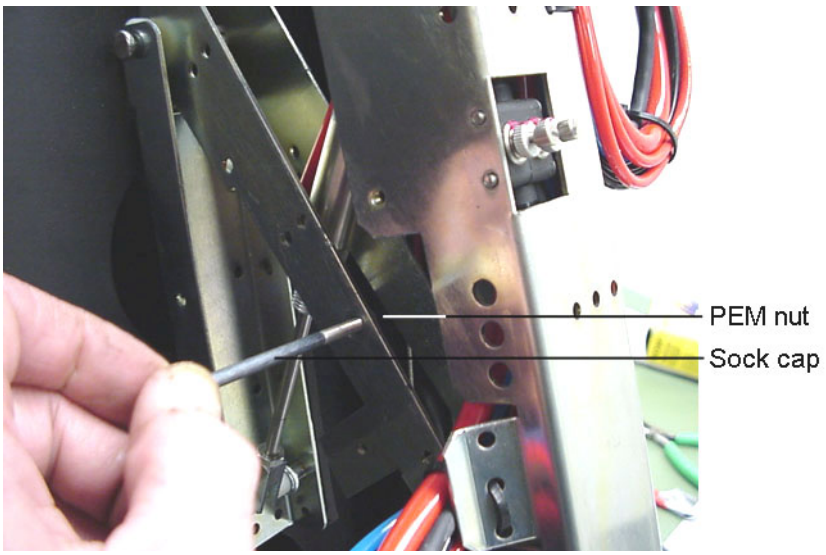
7. Rotate the picker body towards you for access to the cylinders. See photos below.





8. Remove the old wrist cylinders and their mounting hardware.

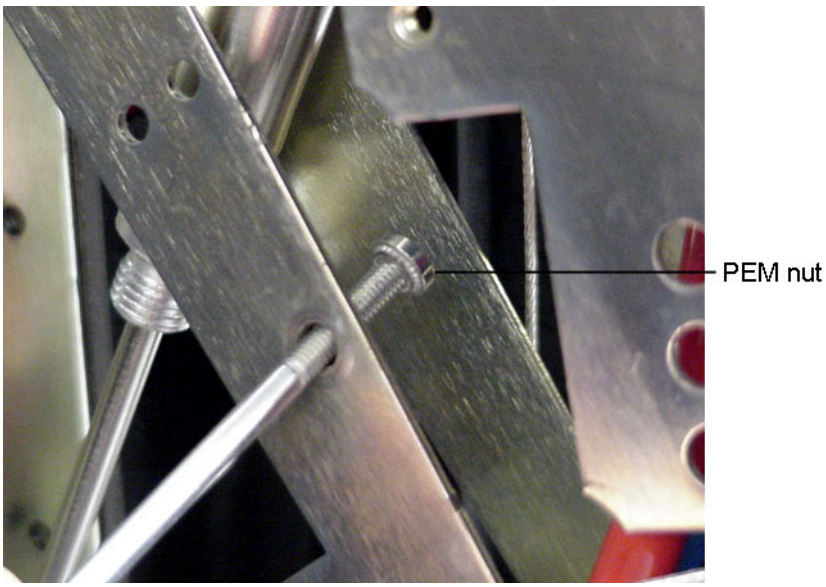
9. Screw the M4x60 socket head cap screw (sock cap) into the upper wrist cylinder mounting PEM nut until the screw protrudes through the PEM. See photo below.



Note: The M4x60 sock cap is only used as an aid in removing the PEM nut. It is not part of the final assembly.

10. Release the PEM nut from the sheet metal by pushing up and down on the screw until the PEM nut is free. You will hear a cracking sound when the PEM nut is free.

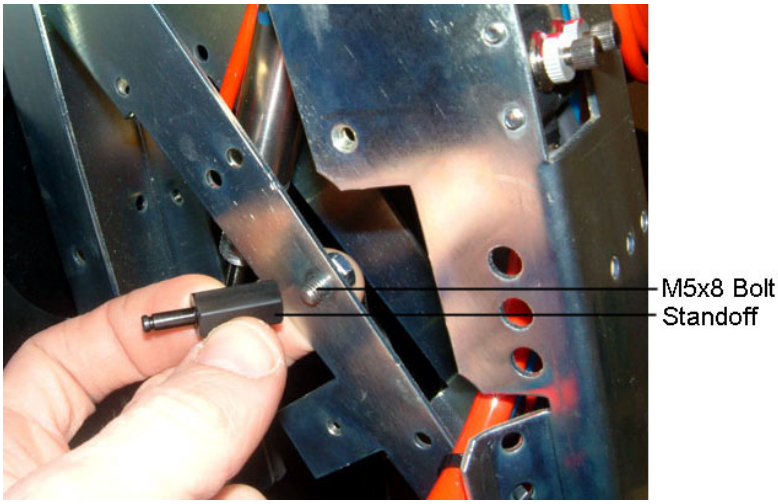
11. Remove the PEM nut by unscrewing it from the sock cap.



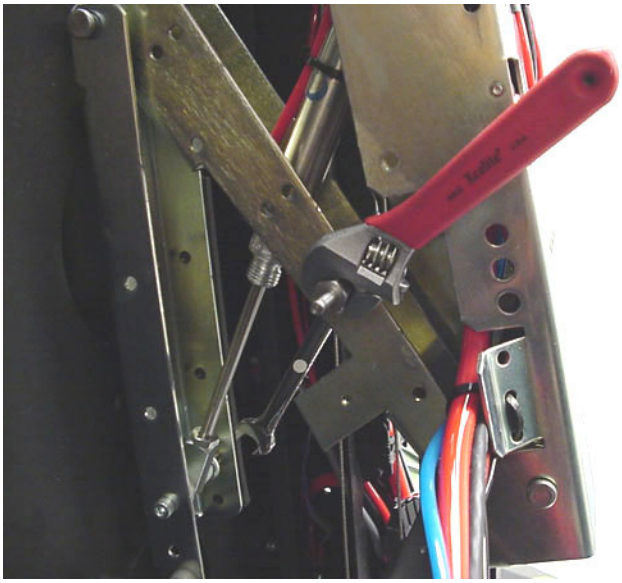
12. Insert the M5x8 bolt through the old PEM nut hole from the side that the PEM nut was removed.

    If there is no Loctite® on the bolt, add a drop of Loctite 242 or 222.

13. Screw the bolt into the standoff. See photo below.



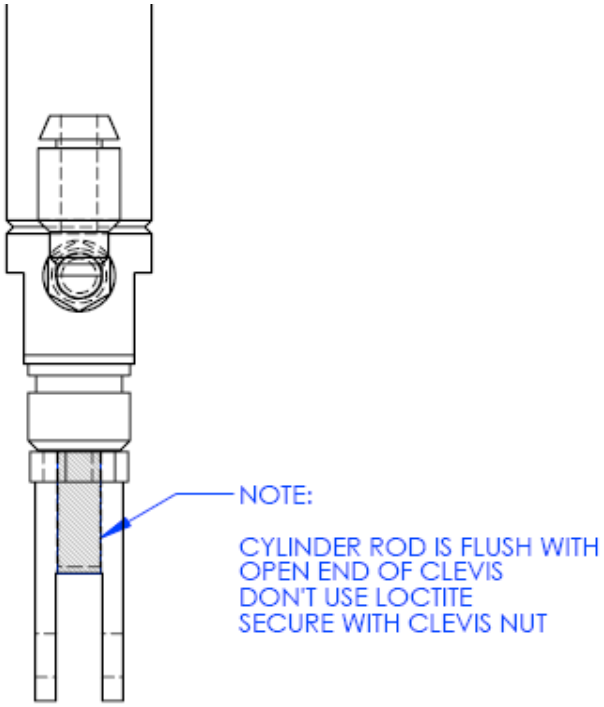
14. Tighten the standoff and bolt together using two wrenches. Make sure it is very tight. See photo below.



Prepare the cylinder:

15. Thread the jam nut onto the cylinder shaft.

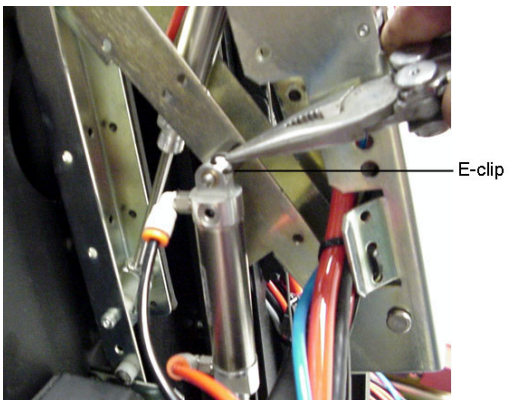
16. Thread the clevis onto the cylinder shaft so that the end of the cylinder shaft will be flush with the edge of the clevis where the shaft would come out again. See drawing below.

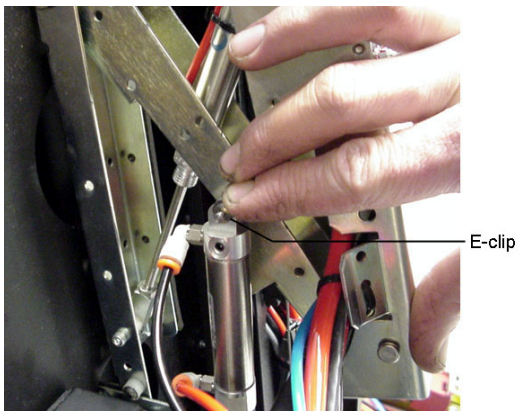


17. Lock the clevis in place by tightening the jam nut against the clevis.

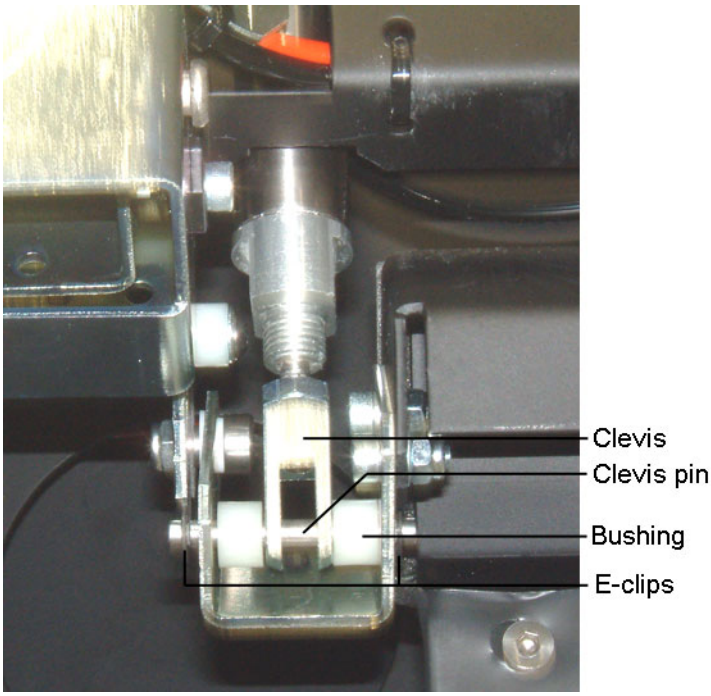
18. Slide the wrist cylinder onto the standoff.

19. Use an E-clip to lock the cylinder in place. You can do this by hand or with a screwdriver or pliers. See photos below





20. Insert the pin through the clevis and place the old bushings on either side of the clevis. See photo below.



21. Attach one E-clip onto each side of the pin outside the U bracket to lock the pin in place.

    Make sure that the E-clip is fully engaged into the slot on the pins and the standoff or it will work free with use.

22. Connect hoses to quick disconnects on new cylinder.

23. Repeat steps 6 to 19 to install the other wrist cylinder.

24. Rotate the picker body back into place.

25. Replace the cable ties on the picker body.

26. Tighten the lower picker body screws.

27. Reinstall the upper picker body screws.

28. Remove the cable ties you used to hold up the picker in step 3 and lower the picker by hand.

29. Close the bay door.

30. Turn the compressed air supply back on.



WARNING: The plate bay door must be closed before you turn the compressed air supply back on. Re-energization of the compressed air supply results in sudden, forceful movement of the picker assembly, which can seriously injure any body part in its path.

31. Mark # 31 on the Trendsetter AL/NEWS MPE 100 label or #1 on the Trendsetter AL/NEWS MCE 100 label.